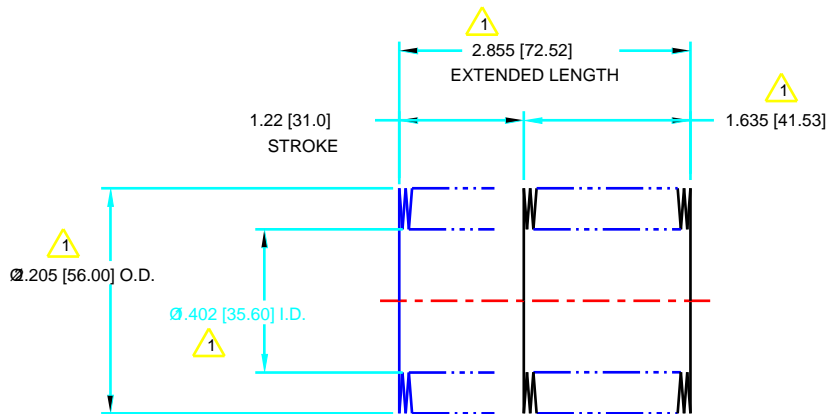


(Ø)	PLOT SCALE: 1=1	DWG. SCALE: 1	A1418802
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NOTES:

1. THIS IS A UHV PART. A MULTIPLE STEP CLEANING PROCESS INVOLVING DEGREASING, WASHING AND DRY NITROGEN BLOW DOWN IS NEEDED BEFORE WELDING.
2. KEEP THE PART CLEAN, AND WRAP FOR UHV PACKING WITH ALUMINUM FOIL.
3. WHEN MACHINING VACUUM PARTS, USE OF SILICONE AND SULPHUR-BASED CUTTING FLUIDS IS PROHIBITED. USE ONE OF THE FOLLOWING:
A) CIMCOOL 5 STAR 49
B) TRIM SOL
4. ALL DIMENSIONS WITH ARE MILLIMETERS
5. THE BELLOW SHALL BE DESIGNED FOR 500,000 CYCLES LIFETIME IN 14.7 PSI INTERNAL PRESSURE APPLICATION.

2	304L SST WAS AM 350;	J.G.		
1	2.855 WAS 2.795;	J.G.	J.C.	7/7/93
1	Ø.635 WAS Ø.575;	J.G.	J.C.	7/7/93
1	Ø.402 WAS Ø.500;	J.G.	J.C.	7/7/93
1	Ø.205 WAS Ø.250;	J.G.	J.C.	7/7/93
SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
REVISIONS				

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .X - .03 .XX - .01 .XXX - .005 ANGULAR - .25 SURFACE ROUGHNESS 125		LOG NUMBER A1418802	THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	
DRAWN BY J.G.	DATE 4/22/93	CHIEF DESIGN ENGINEER D.SHU	DATE 5/3/93	TITLE ADVANCED PHOTON SOURCE
CHECKED BY J.CHANG	DATE 4/29/93	GP LEADER T.M.KUZAY	DATE 5/5/93	A3 LIGHT LOAD PNEUMATIC
DESIGNER J.G.	DATE 4/22/93	PROJECT MGR.		31mm - 8" LINEAR ACTUATOR
RESPONSIBLE ENGINEER J.CHANG	DATE 4/29/93	APPROVED/RELEASED		31mm STROKE BELLOW
MATERIAL 304L SST		SCALE 1:1	SIZE B	DRAWING NUMBER P4105090103-810204-02
DO NOT SCALE DRAWING		SHEET 1 of 1		